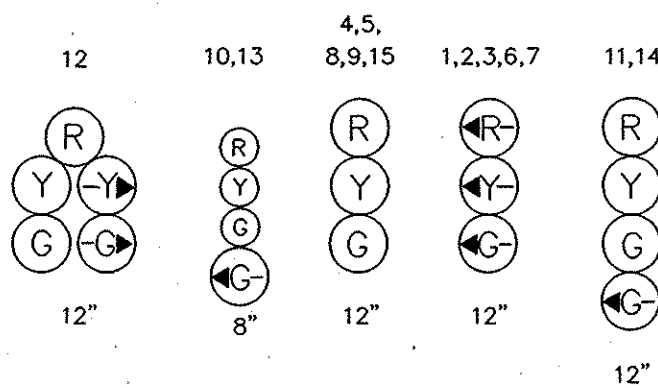
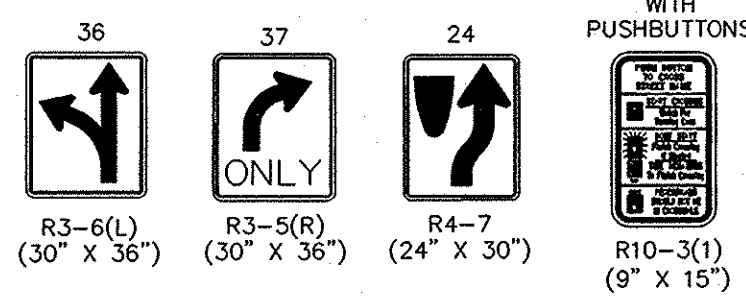


CRESTWOOD BLVD. IS ASSUMED TO RUN IN A NORTH/SOUTH DIRECTION.

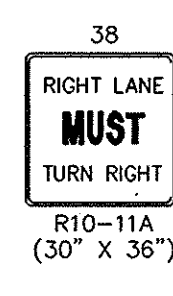
PROPOSED BLACK FACED LED TRAFFIC SIGNAL HEADS



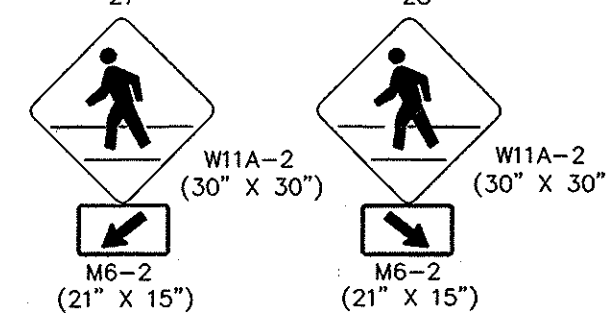
EXISTING SIGNS



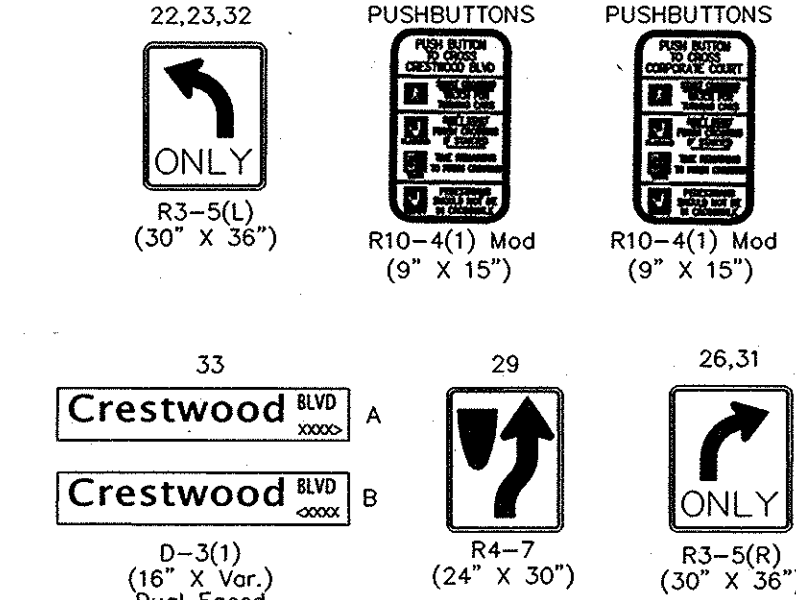
EXISTING SIGNS (TO BE RELOCATED)



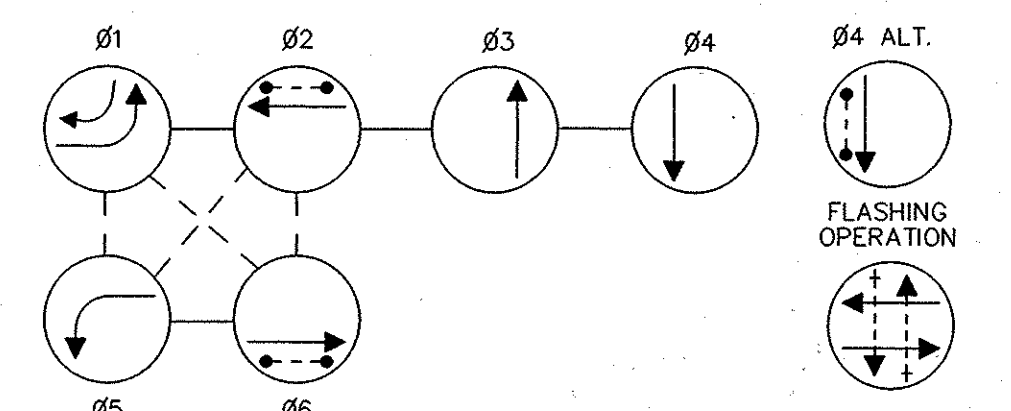
EXISTING SIGNS (TO BE REMOVED)



PROPOSED SIGNS

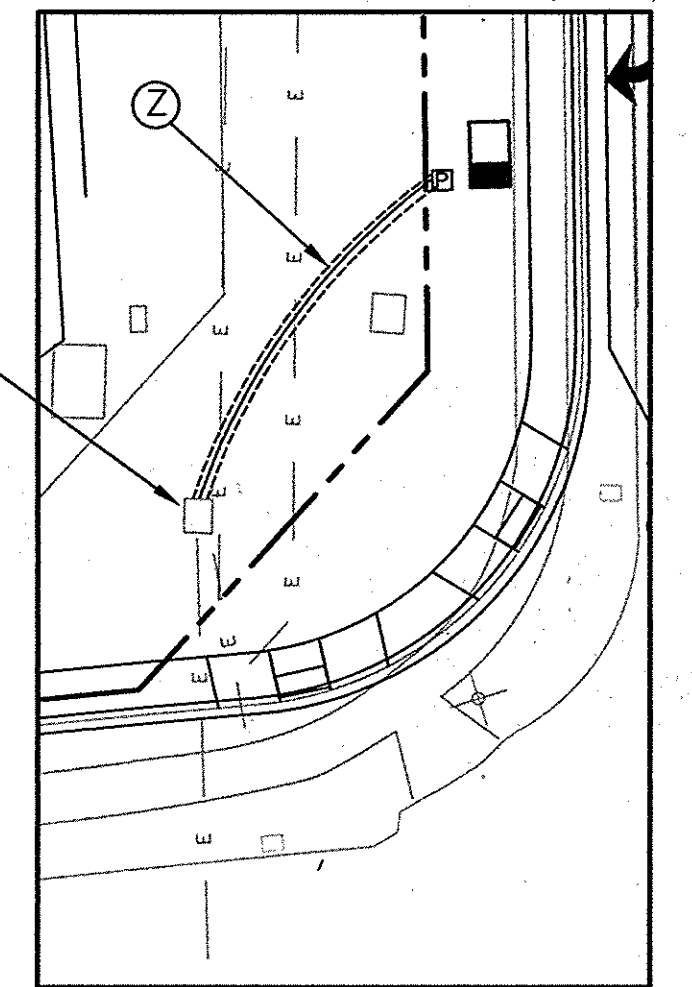


NEMA PHASING



NOTE: PHASES ASSOCIATED BY A DASHED LINE WILL OPERATE CONCURRENTLY. PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY.

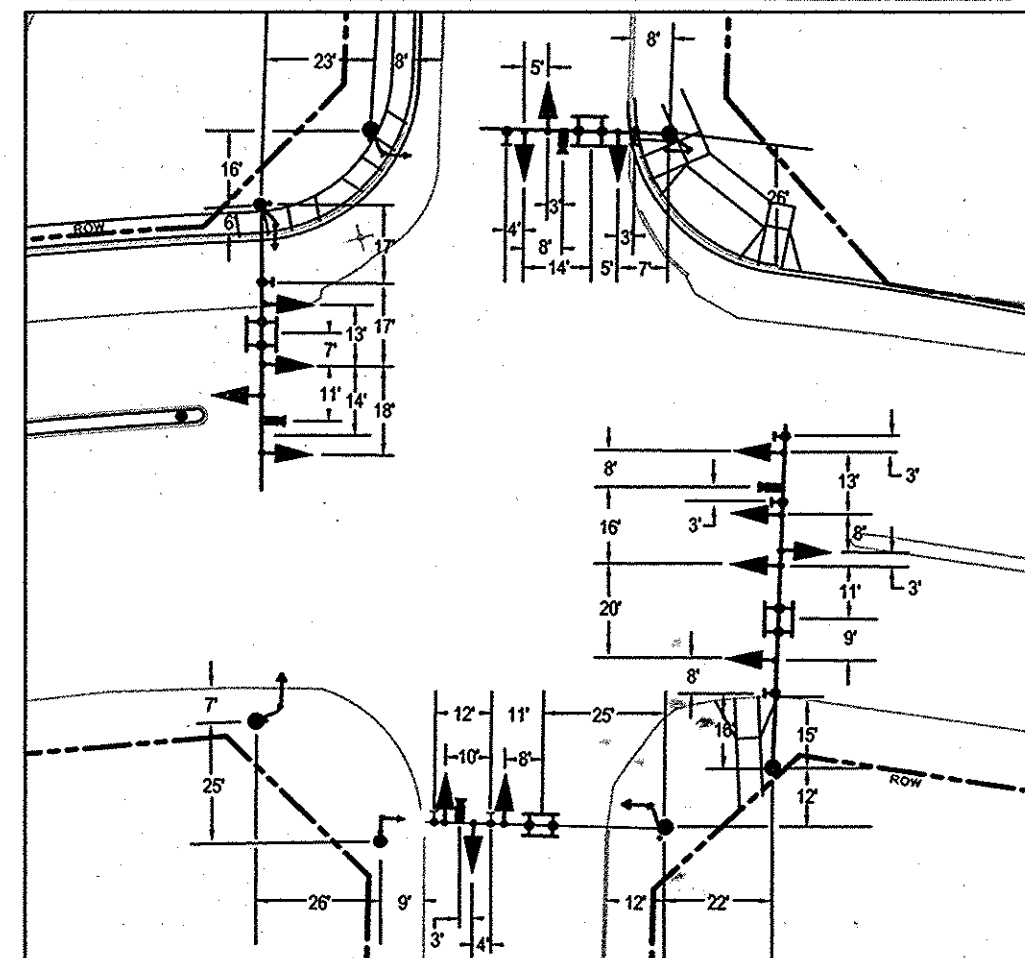
POWER FEED DETAIL (NTS)



INSTALLATION NOTES:

- Install a NEMA size "6" ground mounted controller with all necessary equipment. (Note: two - 4 in. PVC schedule 80, and two - 2 in. PVC schedule 80 electrical conduit bends).
- Install 200 AMP service pedestal with control and distribution equipment.
- Install a 27 ft. steel pole with 38 ft. mast arm, traffic and pedestrian signal heads, pedestrian push-button with R10-3(1) Mod. sign, video detection camera and signs. (Note: one - 3 in. PVC schedule 80 conduit bend).
- Install a 27 ft. steel pole with 70 ft. mast arm, traffic and pedestrian signal heads, pedestrian push-button with R10-3(1) Mod. sign, video detection camera, signs, and a 15 ft. luminaire arm with a 250 watt HPS luminaire as shown. (Note: one - 3 in. PVC schedule 80 conduit bend).
- Install a 27 ft. steel pole with 60 ft. mast arm, traffic and pedestrian signal heads, pedestrian push-button with R10-3(1) Mod. sign, video detection camera, signs and a 15 ft. luminaire arm with a 250 watt HPS luminaire as shown. (Note: one - 3 in. PVC schedule 80 conduit bend).
- Install a 10 ft. pedestal pole with a breakaway base support system, pedestrian signal head, and pedestrian push-button with R10-3(1) Mod. sign (Note: one - 3 in. PVC schedule 80 electrical conduit bend).
- Remove existing northbound mast arm, signal heads, signs, and luminaire as shown. Install mast arm flange plate cover. Reuse existing mast arm pole, eastbound mast arm, and signs. Replace existing traffic signal heads and relocate existing street name sign as shown. Install 16 in. LED countdown pedestrian signal head and pedestrian push-button with R10-3(1) Mod. sign.
- Maintain existing pedestal pole. Replace existing "Hand/Man" pedestrian signal head with 16 in. LED countdown pedestrian signal head. Replace existing pushbutton sign with R10-3(1) Mod. sign.
- Install electrical handhole.
- Install detector warning surface to ADA ramps, as shown.
- Install 3 in. PVC schedule 80 electrical conduit - trenched.
- Install 4 in. PVC schedule 80 electrical conduit - trenched.
- Install 4 in. PVC schedule 80 electrical conduit - bored.
- Install 3 in. PVC schedule 80 electrical conduit - bored.
- Use existing conduit.
- Use existing handhole.
- Install non-invasive micro probe (set of 3) with 500' lead in.
- Install 24 in. white heat applied permanent preformed thermoplastic stopbar, as shown.
- Install 12 in. white heat applied permanent preformed thermoplastic crosswalk, as shown.
- Eradicate existing pavement marking.
- Install ground mounted sign.
- Relocate existing R10-11A sign to new 4x4 wood post.
- Remove existing ground mounted sign.
- Install 2 in. PVC schedule 80 electrical conduit - trenched, for power from metered service pedestal (msp) to Allegheny Transformer # T32773. (See Power Feed Detail).

POLE AND SIGNAL HEAD DIMENSIONS



GEOMETRIC LEGEND

EXISTING
PROPOSED

UTILITY LEGEND

SD - STORM DRAIN
G - GAS MAIN
W - WATER MAIN
S - SEWER MAIN
E - ELECTRIC CABLES
A - AERIAL CABLES
T - TELEPHONE CABLES
F - FIBER-OPTIC

GENERAL NOTES:

- ALL UNDERGROUND AND OVERHEAD UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC ONLY AND MAY NOT BE COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING MISS UTILITIES PRIOR TO CONSTRUCTION SO THAT UTILITIES MAY BE LOCATED IN THE FIELD. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN THE UTILITIES AND TRAFFIC SIGNAL EQUIPMENT WILL OCCUR, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IMMEDIATELY SO THAT THE CONFLICT MAY BE RESOLVED.
- EXISTING SIGNAL EQUIPMENT (MAST ARM POLE, SIGNS, SIGNAL HEADS, CABINET, AND FOUNDATIONS) SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND REMOVED FROM THE SITE, UNLESS OTHERWISE SHOWN FOR REUSE. EXISTING SIGNAL POLE AND CABINET FOUNDATIONS ARE TO BE CHIPPED 12" BELOW GRADE AND BACK FILLED. SIGNAL POLES SHALL BE REMOVED UNLESS OTHERWISE NOTED. EXISTING CONTROLLER TO BE REMOVED BY FREDERICK COUNTY FORCES. EXISTING HANDBOXES ARE TO BE REMOVED AND CONDUIT CAPPED AND ABANDONED IN ACCORDANCE WITH FREDERICK COUNTY REQUIREMENTS (UNLESS OTHERWISE SHOWN FOR REUSE).
- ALL TRAFFIC SIGNAL FOUNDATIONS SHALL BE INSTALLED AT THE FINAL SIDEWALK OR CURB GRADE FOR CLOSED SECTIONS. HIGHEST ROADWAY PROFILE GRADE FOR OPEN SECTIONS TO MEET CLEARANCES AS SPECIFIED IN MD 816.03, MD 818.01, MD 818.02, MD 818.04. THE CONTRACTOR SHALL VERIFY ULTIMATE GRADES PRIOR TO THE INSTALLATION OF ALL SIGNAL EQUIPMENT.
- STRIPING SHOWN IS PER PAVEMENT MARKING AND SIGNING PLAN PREPARED BY RODGERS CONSULTING. CONFLICTING STRIPING SHALL BE COMPLETELY ERADICATED.
- EXISTING LOOP DETECTORS AND MICRO-LOOP PROBE SETS SHALL BE DISCONNECTED AND ABANDONED UNLESS OTHERWISE NOTED.

GENERAL NOTES CONT:

- PUSH-BUTTONS ARE TO BE LOCATED ADJACENT TO A LEVEL (<1:48) LANDING (60" X 60") ALONG THE PEDESTRIAN ACCESS ROUTE LEADING TO THE CROSSWALK.
- LOCATION OF ACCESSIBLE PEDESTRIAN PUSHBUTTONS MUST MEET LOCATION REQUIREMENTS OF THE MUTCD, SECTION 4E-09 AND FIGURE 4E-2 AND THE NCHRP PUBLICATION "ACCESSIBLE PEDESTRIAN SIGNALS: GUIDE TO BEST PRACTICE." IF NOT MET, THE CONTRACTOR SHALL STOP WORK UNTIL THE CONFLICT HAS BEEN RESOLVED. IF NEEDED, A DESIGN WAIVER SHALL BE OBTAINED, APPROVED BY THE DIRECTOR, OFFICE OF TRAFFIC AND SAFETY.

WELLS & ASSOCIATES, LLC

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Phone: (703) 443-1442 Fax: (703) 443-1225

APPROVALS

ORIGINAL
ON
FILE
WITH
FREDERICK
COUNTY
OFFICE DIRECTOR

REVISIONS

Modify traffic signal to include a third south-bound lane.
3/21/07
DPN [Signature] [Signature] [Signature] [Signature]

FREDERICK COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS
BUREAU OF HIGHWAYS AND TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
FREDERICK COUNTY, MARYLAND

TRAFFIC SIGNAL MODIFICATION PLAN
CRESTWOOD BLVD. @ CORPORATE DRIVE /
CORPORATE COURT

SCALE 1"=20' DATE 1/98 CONTRACT NO.

DESIGNED BY COUNTY Frederick

DRAWN BY LOGMILE

CHECKED BY T.I.M.S. NO. 1150

PROJECT # 4647 TOD NO.

DRAWING NO. OF SHEET NO. 1 OF 2